

## WEST Search History

DATE: Wednesday, May 26, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=USPT; PLUR=YES; OP=AND</i>	
<input type="checkbox"/>	L1	5688501.pn.	1
		<i>DB=EPAB,JPAB,DWPI; PLUR=YES; OP=AND</i>	
<input type="checkbox"/>	L2	0414304 or 0403292	13
		<i>DB=EPAB; PLUR=YES; OP=AND</i>	
<input type="checkbox"/>	L3	0414304	0
		<i>DB=DWPI; PLUR=YES; OP=AND</i>	
<input type="checkbox"/>	L4	0414304	3
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<input type="checkbox"/>	L6	414304	5
<input type="checkbox"/>	L7	403292	3

END OF SEARCH HISTORY

## WEST Search History

DATE: Wednesday, May 26, 2004

<b>Hide?</b>	<b><u>Set</u> <u>Name</u></b>	<b><u>Query</u></b>	<b><u>Hit</u> <u>Count</u></b>
		<i>DB=USPT; PLUR=YES; OP=AND</i>	
<input type="checkbox"/>	L1	(\$phage or \$phages).clm.	2495
<input type="checkbox"/>	L2	L1 and (method or process).clm.	2042
<input type="checkbox"/>	L3	L2 and (treat\$ or therapeut\$ or prevent\$ or eradicat\$ or administer\$ or improv\$).clm.	808
<input type="checkbox"/>	L4	host near3 range	5207
<input type="checkbox"/>	L5	L4 and l1	252
<input type="checkbox"/>	L6	l5 and l2	195
<input type="checkbox"/>	L7	L6 and l3	63

END OF SEARCH HISTORY

[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 50 of 63 returned.**

- 
- ☐ 1. [6699476](#). 12 Jul 00; 02 Mar 04. Production of recombinant respiratory syncytial viruses expressing immune modulatory molecules. Collins; Peter L., et al. 424/199.1; 424/202.1 424/205.1 424/211.1 435/69.1. A61K039/12 A61K039/295.
- 
- ☐ 2. [6696295](#). 28 Feb 01; 24 Feb 04. Transducing phages. Westpheling; Janet, et al. 435/472; 435/235.1 435/252.1 435/252.35 435/29 435/320.1 435/475 435/5 435/6 536/23.1. C12N015/09 C12N015/74 C12N007/00 C12Q001/68 C07H021/04.
- 
- ☐ 3. [6656463](#). 08 Nov 01; 02 Dec 03. Compositions and methods for reducing the amount of salmonella in livestock. Harris; Delbert L., et al. 424/93.6; 424/93.3 435/235.1 435/239. A01N063/00.
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- ☐ 4. [6635238](#). 14 Sep 01; 21 Oct 03. Bacteriophage-encoded enzymes for the treatment and prevention of dental caries and periodontal diseases. Delisle; Allan L.. 424/49; 424/50. A61K007/16.
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- ☐ 5. [6589732](#). 28 Feb 01; 08 Jul 03. Transducing phages. Westpheling; Janet, et al. 435/5; 435/235.1 435/252.1 435/29 435/472 435/475 435/6. C12Q001/70 C12Q001/68 C12Q001/02 C12N001/12 C12N001/20.
- 
- ☐ 6. [6583121](#). 12 Nov 99; 24 Jun 03. System for the in vivo delivery and expression of heterologous genes in the bone marrow. Johnston; Robert E., et al. 514/44; 435/320.1. A61K048/00 C12N015/64.
- 
- ☐ 7. [6573090](#). 09 Dec 99; 03 Jun 03. Enhanced packaging of herpes virus amplicons and generation of recombinant virus vectors. Breakefield; Xandra O., et al. 435/320.1; 424/199.1 424/201.1 424/202.1 424/203.1 424/229.1 424/234.1 424/93.1 435/235.1 435/239 435/456 435/6 435/69.1 514/44 536/23.1. C12N015/81 C12N015/70 C12N015/33 C12N015/38 C12N015/869.
- 
- ☐ 8. [6528311](#). 01 Mar 00; 04 Mar 03. Evolution of whole cells and organisms by recursive sequence recombination. delCardayre; Stephen, et al. 435/440; 435/6 536/23.1 536/24.3. C12N015/00 C12Q001/68 C07H021/02 C07H021/04.
- 
- ☐ 9. [6497882](#). 07 Jun 95; 24 Dec 02. Recombinant swinepox virus. Cochran; Mark D., et al. 424/199.1; 424/93.2 435/235.1 435/320.1. A61K039/12 A61K039/275 C12N007/01 C12N015/863.
- 
- ☐ 10. [6495318](#). 24 Dec 98; 17 Dec 02. Method and kits for preparing multicomponent nucleic acid constructs. Harney; Peter D.. 435/6; 435/254.2 435/320.1 435/91.1 435/91.2 536/22.1 536/24.3 536/24.33 536/24.5. C12Q001/68 C07H019/00 C07H021/00 C07H021/02.
- 
- ☐ 11. [6485902](#). 05 Jun 01; 26 Nov 02. Use of bacteriophages for control of escherichia coli O157. Waddell; Thomas E., et al. 435/5; 424/93.6. C12Q001/70 A01N063/00.
- 
- ☐ 12. [6482635](#). 28 Sep 01; 19 Nov 02. Method of reducing off-flavor in water or aquatic life forms using Bacterium NRRL B-30043. Walker; Harrell L., et al. 435/243; 435/257.1 435/822. C12N001/00 C12N001/12 C12N001/20.
- 
- ☐ 13. [6482632](#). 21 Apr 99; 19 Nov 02. Bacteriophage, a process for the isolation thereof, and a

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File 155:MEDLINE(R) 1966-2004/May W3  
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File 349:PCT FULLTEXT 1979-2002/UB=20040520,UT=20040513  
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DIALOG  
5/04  
BY

Set . Items Description  
S1 103 BACTERIOPHAG?/TI (100N) THERAPEUT?  
S2 76 RD (unique items)  
?t s2/3,kwic/52  
>>>KWIC option is not available in file(s): 399

2/3,KWIC/52 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01524737

**METHODS FOR GENERATING LIBRARIES OF THERAPEUTIC BACTERIOPHAGES HAVING  
DESIRED SAFETY CHARACTERISTICS AND METHODS FOR LABELING AND MONITORING  
BACTERIOPHAGES**

**PROCEDES PERMETTANT DE PRODUIRE DES BIBLIOTHEQUES DE BACTERIOPHAGES  
THERAPEUTIQUES POSSEDANT DES CARACTERISTIQUES DE SECURITE DESIREES ET  
PROCEDES DE MARQUAGE ET DE SURVEILLANCE DESDITS BACTERIOPHAGES**

PATENT ASSIGNEE:

Biophage, Inc., (3936210), 6100 Royalmount, Montreal, Quebec H4P 2R2,  
(CA), (Applicant designated States: all)

INVENTOR:

MANDEVILLE, Rosemonde, 781 Thibault, Ste-Therese, Quebec J7E 4B9, (CA)

ALLAIN, Beatrice, 8434 St-Hubert, Montreal, Quebec H2P 1Z5, (CA)

MURTHY, Kishore, 24 Linton, Dollard des Ormeaux, Quebec H9B 1P3, (CA)

PATENT (CC, No, Kind, Date):

WO 2002086154 021031

APPLICATION (CC, No, Date): EP 2002764031 020419; WO 2002CA569 020419

PRIORITY (CC, No, Date): US 284517 P 010419

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C12Q-001/68

LANGUAGE (Publication,Procedural,Application): English; English; English

**METHODS FOR GENERATING LIBRARIES OF THERAPEUTIC BACTERIOPHAGES HAVING  
DESIRED SAFETY CHARACTERISTICS AND METHODS FOR LABELING AND MONITORING  
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**PROCEDES PERMETTANT DE PRODUIRE DES BIBLIOTHEQUES DE BACTERIOPHAGES  
THERAPEUTIQUES POSSEDANT DES CARACTERISTIQUES DE SECURITE DESIREES ET  
PROCEDES DE MARQUAGE ET DE SURVEILLANCE DESDITS BACTERIOPHAGES**

?logoff hold

26may04 08:41:21 User228206 Session D2178.5

Set Items Description  
S1 103 BACTERIOPHAG?/TI (100N) THERAPEUT?  
S2 76 RD (unique items)  
?t s2/3,kwic/52  
>>>KWIC option is not available in file(s): 399

2/3,KWIC/52 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01524737

**METHODS FOR GENERATING LIBRARIES OF THERAPEUTIC BACTERIOPHAGES HAVING  
DESIRED SAFETY CHARACTERISTICS AND METHODS FOR LABELING AND MONITORING  
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INVENTOR:

MANDEVILLE, Rosemonde, 781 Thibault, Ste-Therese, Quebec J7E 4B9, (CA)

ALLAIN, Beatrice, 8434 St-Hubert, Montreal, Quebec H2P 1Z5, (CA)

MURTHY, Kishore, 24 Linton, Dollard des Ormeaux, Quebec H9B 1P3, (CA)

PATENT (CC, No, Kind, Date):

WO 2002086154 021031

APPLICATION (CC, No, Date): EP 2002764031 020419; WO 2002CA569 020419

PRIORITY (CC, No, Date): US 284517 P 010419

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LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

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DESIRED SAFETY CHARACTERISTICS AND METHODS FOR LABELING AND MONITORING  
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PROCEDES DE MARQUAGE ET DE SURVEILLANCE DESDITS BACTERIOPHAGES**

?logoff hold

26may04 08:41:21 User228206 Session D2178.5

First Hit   Fwd Refs

L7: Entry 1 of 63

File: USPT

Mar 2, 2004

US-PAT-NO: 6699476

DOCUMENT-IDENTIFIER: US 6699476 B1

TITLE: Production of recombinant respiratory syncytial viruses expressing immune modulatory molecules

DATE-ISSUED: March 2, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; Peter L.	Rockville	MD	20852	
Bukreyev; Alexander	Rockville	MD	20851	
Murphy; Brian P.	Bethesda	MD	20816	
Whitehead; Stephen S.	Gaithersburg	MD	20878	

APPL-NO: 09/ 614285   [PALM]

DATE FILED: July 12, 2000

## PARENT-CASE:

CROSS-REFERENCES TO RELATED APPLICATIONS This application claims the priority benefit of U.S. Provisional Application No. 60/143,425, filed by Peter L. Collins et al. on Jul. 13, 1999. The present application also claims the benefit of and is a continuation-in-part of U.S. patent application Ser. No. 09/291,894, filed Apr. 13, 1999, which is a continuation-in-part of U.S. patent application Ser. No. 08/892,403, filed Jul. 15, 1997, issued on Nov. 30, 1999 as U.S. Pat. No. 5,993,824, which is entitled to priority from U.S. Provisional Application Nos. 60/047,634, filed May 23, 1997; 60/046,141, filed May 9, 1997; and 60/021,773, filed Jul. 15, 1996, each of which is incorporated herein by reference.

INT-CL: [07] A61 K 39/12, A61 K 39/295US-CL-ISSUED: 424/199.1; 424/202.1, 424/205.1, 424/211.1, 435/69.1US-CL-CURRENT: 424/199.1; 424/202.1, 424/205.1, 424/211.1, 435/69.1

FIELD-OF-SEARCH: 424/85.1, 424/85.2, 424/85.4, 424/85.5, 424/85.6, 424/85.7,  
424/184.1, 424/199.1, 424/205.1, 424/211.1, 435/69.1

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

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Search ALL

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5716821</u>	February 1998	Wertz et al.	435/235.1
<input type="checkbox"/>	<u>5789229</u>	August 1998	Wertz et al.	435/235.1

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Items	File
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5	5: Biosis Previews(R)_1969-2004/May W3
3	9: Business & Industry(R)_Jul/1994-2004/May 25
1	16: Gale Group PROMT(R)_1990-2004/May 26
3	34: SciSearch(R) Cited Ref Sci_1990-2004/May W3
1	35: Dissertation Abs Online_1861-2004/Apr
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Examined 50 files

>>>Term "TI" is not defined in file 107 and is ignored

2	107: Adis R&D Insight_1986-2004/May W3
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3	128: PHARMAPROJECTS_1980-2004/May W2
1	143: Biol. & Agric. Index_1983-2004/Apr
4	144: Pascal_1973-2004/May W3
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14	155: MEDLINE(R)_1966-2004/May W3

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1	285: BioBusiness(R)_1985-1998/Aug W1
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10	286: Biocommerce Abs.& Dir._1981-2004/Apr B2
1	315: ChemEng & Biotec Abs_1970-2004/Apr
3	319: Chem Bus NewsBase_1984-2004/May 26
1	331: Derwent WPI First View_ UD=200432
6	340: CLAIMS(R)/US Patent_1950-04/May 20
3	342: Derwent Patents Citation Indx_1978-04/200428
2	345: Inpadoc/Fam.& Legal Stat_1968-2004/UD=200419

Examined 150 files

4	348: EUROPEAN PATENTS_1978-2004/May W03
3	349: PCT FULLTEXT_1979-2002/UB=20040520,UT=20040513
2	357: Derwent Biotech Res._1982-2004/May W4
1	358: Current BioTech Abs_1983-2004/Apr
5	399: CA SEARCH(R)_1967-2004/UD=14022
6	434: SciSearch(R) Cited Ref Sci_1974-1989/Dec
8	440: Current Contents Search(R)_1990-2004/May 26

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1	636: Gale Group Newsletter DB(TM)_1987-2004/May 26
1	654: US Pat.Full._1976-2004/May 18

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S BACTERIOPHAG?/TI (100N) THERAPEUT?

Ref	Items	File
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N1	14	155: MEDLINE(R)_1966-2004/May W3
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N2 10 73: EMBASE\_1974-2004/May W3  
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26may04 08:19:52 User228206 Session D2178.2

\$5.59 2.485 DialUnits File411

\$5.59 Estimated cost File411

\$0.50 TELNET

\$6.09 Estimated cost this search

\$6.11 Estimated total session cost 2.645 DialUnits

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>>>Term "TI" is not defined in one or more files

74807 BACTERIOPHAG?/TI

3281222 THERAPEUT?

S1 103 BACTERIOPHAG?/TI (100N) THERAPEUT?

?rd

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>>>Duplicate detection is not supported for File 340.

>>>Duplicate detection is not supported for File 348.

>>>Duplicate detection is not supported for File 128.

>>>Duplicate detection is not supported for File 342.

>>>Duplicate detection is not supported for File 349.

>>>Duplicate detection is not supported for File 107.

>>>Duplicate detection is not supported for File 345.

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>>>Record 440:13230268 ignored; incomplete bibliographic data, not retained in RD set

>>>Record 440:11184716 ignored; incomplete bibliographic data, not retained in RD set

>>>Record 440:7307911 ignored; incomplete bibliographic data, not retained in RD set

>>>Record 440:3917940 ignored; incomplete bibliographic data, not retained in RD set

...examined 50 records (50)

...examined 50 records (100)

...completed examining records

S2 76 RD (unique items)

?t s2/6,kwic/all

>>>KWIC option is not available in file(s): 399

2/6,KWIC/1 (Item 1 from file: 155)

DIALOG(R)File 155:(c) format only 2004 The Dialog Corp. All rts. reserv.

16046689 PMID: 14565130

Mode of the rational use of Pseudomonas aeruginosa bacteriophages in therapeutic and epidemic control practice]

Puti ratsional'nogo ispol'zovaniia sinegnoinykh bakteriofagov v lechebnoi i protivoepidemicheskoi praktike.

Sep-Oct 2003

Mode of the rational use of Pseudomonas aeruginosa bacteriophages in therapeutic and epidemic control practice]

2/6,KWIC/2 (Item 2 from file: 155)

DIALOG(R)File 155:(c) format only 2004 The Dialog Corp. All rts. reserv.

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Set	Items	Description
S1	103	BACTERIOPHAG?/TI (100N) THERAPEUT?
S2	76	RD (unique items)

?t s2/9/4 5 6 7 8 9 10-12 13 14 16 19 69

2/9/4 (Item 4 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
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09413900 PMID: 1380753

**Immunobiological properties and therapeutic effectiveness of preparations from Klebsiella bacteriophages ]**

Immunobiologicheskie svoistva i terapevticheskaja effektivnost' preparatov bakteriofagov klebsiell.

Bogovazova G G; Voroshilova N N; Bondarenko V M; Gorbatkova G A; Afanas'eva E V; Kazakova T B; Smirnov V D; Mamleeva A G; Glukharev Iu A; Erastova E I; et al

Zhurnal mikrobiologii, epidemiologii, i immunobiologii (USSR) Mar 1992, (3) p30-3, ISSN 0372-9311 Journal Code: 0415217

Document type: Journal Article ; English Abstract

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

The purified preparations of Klebsiella bacteriophages, viz. the monovalent preparation of K. pneumoniae bacteriophage and the polyvalent bacteriophage preparation for the treatment of infections caused by K. ozaenae, K. rhinoscleromatis scleromatis and K. pneumoniae sensu lato, have been obtained. The bacteriophage preparations have proved to be nontoxic and safe for laboratory animals after the intraperitoneal injection of these preparations followed by the pathomorphological study of the internal organs of the animals. The clinical study of the newly developed bacteriophage preparations in the course of the treatment of purulent inflammatory diseases in 109 patients has revealed that the preparations are not reactogenic and exhibit sufficient effectiveness in the therapy of ozena, rhinoscleroma and Klebsiella infections with different localization of the infectious process.

Tags: Human

Descriptors: \*Bacteriophages; \*Klebsiella; \*Klebsiella Infections --therapy--TH; Animals; Bacteriophages--immunology--IM; Chromatography, Liquid; Klebsiella--immunology--IM; Mice; O Antigens; Polysaccharides, Bacterial--isolation and purification--IP

CAS Registry No.: 0 (O Antigens); 0 (Polysaccharides, Bacterial)

Record Date Created: 19920923

Record Date Completed: 19920923

2/9/5 (Item 5 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2004 The Dialog Corp. All rts. reserv.

08294539 PMID: 2796659

**Bacteriophages and their therapeutic -prophylactic use]**

Bakteriofagi i ikh lechebno-profilakticheskoe primeneniye.

Chernomordik A B

Meditinskaya sestra (USSR) Jun 1989, 48 (6) p44-7, ISSN 0025-8342

Journal Code: 18620490R

Document type: Journal Article

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

Subfile: NURSING

Tags: Human

Descriptors: \*Bacteriophages; \*Biological Factors--therapeutic use--TU; Bacterial Infections--prevention and control--PC; Bacterial Infections --therapy--TH

CAS Registry No.: 0 (Biological Factors)  
Record Date Created: 19891122  
Record Date Completed: 19891122

2/9/6 (Item 6 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

07687545 PMID: 3124795

**Investigation on the therapeutical efficiency of some adapted bacteriophages in experimental infection with Pseudomonas aeruginosa.**

Meitert E; Petrovici M; Sima F; Costache G; Savulian C

Archives roumaines de pathologie experimentales et de microbiologie (ROMANIA) Jan-Mar 1987, 46 (1) p17-26, ISSN 0004-0037 Journal Code: 0421056

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Comparative Study

Descriptors: \*Bacteriophages; \*Biological Products--therapeutic use--TU; \*Pseudomonas Infections--therapy--TH; Animals; Burns--complications--CO; Burns--mortality--MO; Burns--therapy--TH; Evaluation Studies; Mice; Pneumonia--mortality--MO; Pneumonia--therapy--TH; Pseudomonas Infections--mortality--MO; Pseudomonas aeruginosa; Septicemia--mortality--MO; Septicemia--therapy--TH; Time Factors

CAS Registry No.: 0 (Biological Products)

Record Date Created: 19880229

Record Date Completed: 19880229

2/9/7 (Item 7 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

05715128 PMID: 7304029

**Experience in the therapeutic use of bacteriophage preparations in suppurative surgical infections]**

Opyt lechebnogo primeneniia preparatov bakteriofaga pri gnoino-khirurgicheskikh infektsiakh.

Peremitina L D; Berillo E A; Khvoles A G

Zhurnal mikrobiologii, epidemiologii, i immunobiologii (USSR) Sep 1981,

(9) p109-10, ISSN 0372-9311 Journal Code: 0415217

Document type: Journal Article

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Human

Descriptors: \*Bacteriophages; \*Surgical Wound Infection--therapy--TH

Record Date Created: 19820120

Record Date Completed: 19820120

2/9/8 (Item 8 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

04953788 PMID: 734488

**Therapeutic effect of bacteriophage preparations in the complex treatment of suppurative surgical diseases]**

Izuchenie terapevticheskogo effekta preparatov bakteriofaga v kompleksnom lechenii gnoinykh khirurgicheskikh zabolevaniy.

Zhukov-Verezhnikov N N; Peremitina L D; Berillo E A; Komissarov V P;

Bardymov V M

Sovetskaia meditsina (USSR) Dec 1978, (12) p64-6, ISSN 0038-5077

Journal Code: 0404525

Document type: Journal Article ; English Abstract  
Languages: RUSSIAN  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS  
Tags: Human  
Descriptors: \*Bacteriophages; \*Infection--therapy--TH; \*Surgical Wound  
Infection--therapy--TH; Staphylococcal Infections--therapy--TH; Suppuration  
Record Date Created: 19790324  
Record Date Completed: 19790324

2/9/9 (Item 9 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2004 The Dialog Corp. All rts. reserv.

04187503 PMID: 128959  
**Sensitivity to polyvalent therapeutic staphylococcal bacteriophage as  
a supplementary criterion of staphylococcal pathogenicity]**  
Chuvstvitel'nost' k polivalentnomu lechebnmu stafilokokkovomu  
bakteriofagu kak dopolnitel'nyi kriterii patogennosti stafilokokkov  
Fel'dman Iu M; Liubchich L S; Chudner V Z; Usachev G I; Shtefanek L A  
Zhurnal mikrobiologii, epidemiologii, i immunobiologii (USSR) Oct 1975,  
(10) p59-60, ISSN 0372-9311 Journal Code: 0415217  
Document type: Journal Article ; English Abstract  
Languages: RUSSIAN  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS  
It is recommended to use the capacity of pathogenic staphylococci to be  
lysed by polyvalent therapeutic staphylococcal bacteriophage in the  
capacity of an additional simple and accessible criterion of staphylococcus  
pathogenicity. Of 147 strains of the pathogenic plasmocoagulating  
staphylococci 101 were lysed by the phage and of 166 nonplasmocoagulating  
nonpathogenic strains--only 6. This test correlated with the other signs of  
staphylococcus (lecithinase and hemolytic activity). The simplicity and  
sufficient specificity of this test permits to use it in any practical  
laboratory. Polyvalent diagnostic phage can be used on the basis of  
therapeutic bacteriophage by its additional adaptation to the pathogenic  
strains of staphylococcus.  
Descriptors: \*Bacteriolysis; \*Staphylococcus--pathogenicity--PY;  
\*Staphylococcus Phages--physiology--PH; Bacteriological Techniques;  
Hemolysis; Phospholipases--metabolism--ME; Staphylococcus--enzymology--EN  
Enzyme No.: EC 3.1.- (Phospholipases)  
Record Date Created: 19760330  
Record Date Completed: 19760330

2/9/10 (Item 10 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2004 The Dialog Corp. All rts. reserv.

03923514 PMID: 4439019  
**d'Herelle's bacteriophage and its' therapeutic property]**  
Le **bacteriophage** de d'Herelle et son pouvoir **therapeutique**  
Raiga-Clemenceau A  
Semaine des hopitaux. Therapeutique (FRANCE) Mar 1974, 50 (3)  
p229-31, ISSN 0040-5922 Journal Code: 0415603  
Document type: Journal Article  
Languages: FRENCH  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS  
Descriptors: \*Bacterial Infections--therapy--TH; \*Bacteriophages;  
Bacteriolysis--methods--MT  
Record Date Created: 19750310  
Record Date Completed: 19750310

2/9/11 (Item 11 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2004 The Dialog Corp. All rts. reserv.

03425486 PMID: 5071621

**Biological characteristics of therapeutic -prophylactic newcastle bacteriophages manufactured by different institutes]**  
Biologicheskie osobennosti lechebno-profilakticheskikh fagov M'iukasl proizvodstva razlichnykh institutov.  
Voroshilova N N; Bobkova E V  
Zhurnal mikrobiologii, epidemiologii, i immunobiologii (USSR) Jun 1972, 49 (6) p47-50, ISSN 0372-9311 Journal Code: 0415217  
Document type: Journal Article  
Languages: RUSSIAN  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS  
Descriptors: \*Bacteriophages; \*Dysentery, Bacillary--therapy--TH;  
\*Newcastle disease virus  
Record Date Created: 19721116  
Record Date Completed: 19721116

2/9/12 (Item 12 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2004 The Dialog Corp. All rts. reserv.

03035826 PMID: 4250167

**Use of staphylococcal bacteriophage for therapeutic and preventive purposes]**  
Primenenie stafilokokkovogo bakteriofaga s lechebnoi i profilakteicheskoi tsel'iu.  
Proskurov V A  
Zhurnal mikrobiologii, epidemiologii, i immunobiologii (USSR) Feb 1970, 47 (2) p104-7, ISSN 0372-9311 Journal Code: 0415217  
Document type: Journal Article  
Languages: RUSSIAN  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS  
Tags: Female; Human  
Descriptors: \*Staphylococcal Infections--therapy--TH; \*Staphylococcus Phages; Adult; Staphylococcal Infections--prevention and control--PC  
Record Date Created: 19710227  
Record Date Completed: 19710227

2/9/13 (Item 13 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2004 The Dialog Corp. All rts. reserv.

02474640 PMID: 4232630

**Efficacy of the combined use of therapeutic vaccine and specific bacteriophage in experimental brucellosis]**  
Effektivnost' kombinirovannogo primeneniia lechenoi vaktssiny i spetsificheskogo bakteriofaga pri eksperimental'nom brutselleze.  
Popkhadze M Z; Abashidze T G; Karichashvili L N  
Zhurnal mikrobiologii, epidemiologii, i immunobiologii (USSR) Jan 1968, 45 (1) p93-6, ISSN 0372-9311 Journal Code: 0415217  
Document type: Journal Article  
Languages: RUSSIAN  
Main Citation Owner: NLM  
Record type: Completed  
Subfile: INDEX MEDICUS  
Descriptors: \*Bacteriophages; \*Brucellosis, Bovine--therapy--TH;  
\*Immunotherapy; Animals; Cattle; Georgia (Republic); Guinea Pigs  
Record Date Created: 19680905  
Record Date Completed: 19680905

2/9/14 (Item 14 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)  
(c) format only 2004 The Dialog Corp. All rts. reserv.

002265903 PMID: 5877585

**Acute and chronic diarrhea in adults. Therapeutic importance of the bacteriophage ]**

Les diarrhees aiguës et chroniques de l'adulte. Interet therapeutique du bacteriophage .

Ligny G

Semaine therapeutique (FRANCE) Oct 1963, 39 (8) p499-505, ISSN 0040-5922 Journal Code: 0205463

Document type: Journal Article

Languages: FRENCH

Main Citation Owner: NLM

Record type: Completed

Subfile: INDEX MEDICUS

Tags: Human

Descriptors: \*Anti-Bacterial Agents--therapeutic use--TU; \*Bacteriophages; \*Celiac Disease--therapy--TH; \*Colitis--therapy--TH; \*Diarrhea--therapy--TH; \*Diverticulitis--therapy--TH

CAS Registry No.: 0 (Anti-Bacterial Agents)

Record Date Created: 19670903

Record Date Completed: 19670903

2/9/16 (Item 2 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2004 Elsevier Science B.V. All rts. reserv.

01409260 EMBASE No: 1979130034

**New trends in therapeutic use of bacteriophages**

DONNEES ACTUELLES SUR LES APPLICATIONS THERAPEUTIQUES DES

**BACTERIOPHAGES**

Vieu J.F.; Guillermet F.; Minck R.; Nicolle P.

Inst. Pasteur, 75015 Paris France

Bulletin de l'Academie Nationale de Medecine ( BULL. ACAD. NATL. MED. ) ( France) 1979, 163/1 (61-66)

CODEN: BANMA

DOCUMENT TYPE: Journal

LANGUAGE: FRENCH SUMMARY LANGUAGE: ENGLISH

DRUG DESCRIPTORS:

\*antibiotic agent

MEDICAL DESCRIPTORS:

\*bacteriophage; \*urinary tract infection

drug resistance; drug therapy; therapy

SECTION HEADINGS:

037 Drug Literature Index

047 Virology

004 Microbiology: Bacteriology, Mycology, Parasitology and Virology

009 Surgery

030 Clinical and Experimental Pharmacology

2/9/19 (Item 5 from file: 73)  
DIALOG(R)File 73:EMBASE  
(c) 2004 Elsevier Science B.V. All rts. reserv.

00616021 EMBASE No: 1976171668

**Sensitivity to polyvalent therapeutic staphylococcus bacteriophage as an additional criterion of pathogenicity (Russian)**

Feldman Yu. M.; Lyubchich L.S.; Chudner V.Z.; et al.

Sanit. Epidemiol. Stants., Zhitomir Russia

Zhurnal Mikrobiologii Epidemiologii i Immunobiologii ( ZH. MIKROBIOL.

EPIDEMIOLOG. IMMUNOBIOLOG. ) 1975, 52/10 (59-60)

CODEN: ZMEIA

DOCUMENT TYPE: Journal

LANGUAGE: RUSSIAN

MEDICAL DESCRIPTORS:

\*bacteriophage; \*staphylococcus aureus  
microorganism; in vitro study; theoretical study; methodology

SECTION HEADINGS:

004 Microbiology: Bacteriology, Mycology, Parasitology and Virology

2/9/69 (Item 1 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2004 CAB International. All rts. reserv.

02249062 CAB Accession Number: 902205897

Therapeutic efficacy of polyvalent staphylococcal bacteriophage in bovine mastitis.

Niyaz, N. M.

Vsesoyuznyi Institut Eksper. Veterinariii, Moscow, USSR.

Byulleten' Vsesoyuznogo Instituta Eksperimental'noi Veterinariii vol. 65  
p.80-81

Publication Year: 1988 --

Language: Russian

Document Type: Journal article

Four batches of Tiflis polyvalent bacteriophage, Gorki polyvalent phage and a phage isolated from sewage, tested against 280 cultures of mastitis staphylococci, lysed between 23 and 88% of cultures, the Gorki phage being most efficient. The last-named was infused into the udder of 30 cows with staphylococcal mastitis, using 50 ml for each quarter, once daily for 3 days. 14 of them were bacteriologically negative after treatment.

DESCRIPTORS: Bovine mastitis; therapy; Cows; Mastitis; microorganisms;  
bacterial diseases

ORGANISM DESCRIPTORS: Staphylococcus aureus; bacteriophages;  
Staphylococcus

BROADER TERMS: female animals; animals; Staphylococcus; Micrococcaceae;  
Firmicutes; bacteria; prokaryotes; viruses

CABICODES: Parasites, Vectors, Pathogens & Biogenic Diseases of Animals  
(LL820)

?t s2/3,kwic/45 46 74 75

>>>KWIC option is not available in file(s): 399

2/3,KWIC/45 (Item 1 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

(c) 2004 American Chemical Society. All rts. reserv.

140284034 CA: 140(18)284034w DISSERTATION

A tale of two viruses with therapeutic potential: structural studies on CELO, an avian adenovirus, and the bacteriophage PRD1

AUTHOR(S): Xu, Lan

LOCATION: Univ. of Pennsylvania, Philadelphia, PA, USA

DATE: 2002 PAGES: 234 pp. CODEN: DABBBA LANGUAGE: English CITATION:  
Diss. Abstr. Int., B 2003, 63(11), 5230 AVAIL: UMI, Order No. DA3073076

2/3,KWIC/46 (Item 2 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)

(c) 2004 American Chemical Society. All rts. reserv.

137347478 CA: 137(24)347478e PATENT

Methods for labeling and monitoring genetically modified bacteriophages and generating therapeutic bacteriophage libraries with desired safety characteristics

INVENTOR(AUTHOR): Mandeville, Rosemonde; Allain, Beatrice; Murthy, Kishore

LOCATION: Can.,

ASSIGNEE: Biophage, Inc.

PATENT: PCT International ; WO 200286154 A2 DATE: 20021031

APPLICATION: WO 2002CA569 (20020419) \*US PV284517 (20010419)

PAGES: 41 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;



GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;  
 SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW;  
 AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW  
 ; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
 GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
 ML; MR; NE; SN; TD; TG

2/3,KWIC/74 (Item 2 from file: 345)  
 DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
 (c) 2004 EPO. All rts. reserv.

16977069

Basic Patent (No,Kind,Date): US 5985271 A 19991116 <No. of Patents: 097>

**Prophylactic and therapeutc treatment of group A streptococcal infection**  
 (English)

Patent Assignee: NEW HORIZONS DIAGNOSTICS CORP (US)

Author (Inventor): FISCHETTI VINCENT (US); LOOMIS LAWRENCE (US)

National Class: \*424094100; 424045000; 424440000; 424489000; 424464000;

514002000; 514937000; 514944000

IPC: \*A61K-038/43;

Derwent WPI Acc No: C 00-012759

Language of Document: English

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
AU 9928767	A1	20000914	AU 9928767	A	19990225	
AU 200020591	A5	20000801	AU 5920591	A	19991223	
AU 200077021	A5	20010417	AU 200077021	A	20000914	
AU 200127834	A5	20010724	AU 200127834	A	20010112	
BR 9916881	A	20020507	BR 99U16881	A	19991223	
BR 9917152	A	20021126	BR 99U17152	A	19990225	
BR 200013998	A	20020514	BR 200013998	A	20000914	
CA 2359109	AA	20000720	CA 2359109	A	19991223	
CA 2366712	AA	20000831	CA 2366712	A	19990225	
CA 2384881	AA	20010322	CA 2384881	A	20000914	
CA 2397386	AA	20010719	CA 2397386	A	20010112	
CN 1337878	T	20020227	CN 99816287	A	19991223	
CN 1390135	T	20030108	CN 2000815660	A	20000914	
CN 1418108	T	20030514	CN 2001806307	A	20010112	
EP 1140028	A1	20011010	EP 99964321	A	19991223	
EP 1162994	A1	20011219	EP 99909595	A	19990225	
EP 1212080	A2	20020612	EP 2000966719	A	20000914	
EP 1246641	A2	20021009	EP 2001901984	A	20010112	
HU 200202670	AB	20021128	HU 20022670	A	19991223	
HU 200203523	AB	20030228	HU 20023523	A	20000914	
IL 144087	A0	20020523	IL 144087	A	19991223	
IL 145087	A0	20020630	IL 145087	A	19990225	
IL 148651	A0	20020912	IL 148651	A	20000914	
IL 150675	A0	20030212	IL 150675	A	20010112	
JP 2002537350	A2	20021105	JP 2000600679	A	19990225	
JP 2002534456	T2	20021015	JP 2000593290	A	19991223	
JP 2003509375	T2	20030311	JP 2001523017	A	20000914	
JP 2003519665	T2	20030624	JP 2001551496	A	20010112	
NO 200103402	A	20010911	NO 20013402	A	20010709	
NO 200103402	A0	20010709	NO 20013402	A	20010709	
NZ 514260	A	20030228	NZ 514260	A	19990225	
PL 352876	A1	20030922	PL 352876	A	19990225	
PL 354259	A1	20031229	PL 354259	A	20000914	
TR 200102012	T2	20020121	TR 200102012	A	19991223	
TR 200201484	T2	20030221	TR 200201484	A	20000914	
US 5985271	A	19991116	US 257026	A	19990225	(BASIC)
US 5997862	A	19991207	US 962523	A	19971031	
US 6017528	A	20000125	US 257025	A	19990225	
US 6056954	A	20000502	US 395636	A	19990914	
US 20010038849	AA	20011108	US 819376	A	20010328	
US 20020022051	AA	20020221	US 932460	A	20010820	
US 20020081265	AA	20020627	US 83142	A	20020227	
US 20020090367	AA	20020711	US 67979	A	20020208	

US 20020094319	AA	20020718	US 12032	A	20011211
US 20020094330	AA	20020718	US 67991	A	20020208
US 20020098234	AA	20020725	US 83462	A	20020227
US 20020119131	AA	20020829	US 67995	A	20020208
US 20020119132	AA	20020829	US 104488	A	20020325
US 20020119133	AA	20020829	US 105075	A	20020325
US 20020119134	AA	20020829	US 105076	A	20020325
US 20020127206	AA	20020912	US 908737	A	20010719
US 20020127212	AA	20020912	US 866106	A	20010525
US 20020127215	AA	20020912	US 752731	A	20010103
US 20020127220	AA	20020912	US 145604	A	20020514
US 20020136712	AA	20020926	US 960472	A	20010921
US 20020146402	AA	20021010	US 135851	A	20020501
US 20020146403	AA	20021010	US 135824	A	20020501
US 20020159987	AA	20021031	US 135825	A	20020501
US 20020159988	AA	20021031	US 135826	A	20020501
US 20030082110	AA	20030501	US 176375	A	20020621
US 20030113298	AA	20030619	US 846688	A	20010502
US 20030129146	AA	20030710	US 219250	A	20020816
US 20030129147	AA	20030710	US 219251	A	20020816
US 20030138493	AA	20030724	US 264793	A	20021004
US 20040071774	AA	20040415	US 641301	A	20030814
US 20040076616	AA	20040422	US 720266	A	20031125
US 20040076624	AA	20040422	US 465889	A	20030620
US 6238661	BA	20010529	US 497495	A	20000418
US 6248324	BA	20010619	US 671879	A	20000928
US 6254866	BA	20010703	US 653690	A	20000901
US 6264945	BA	20010724	US 482992	A	20000114
US 6277399	BA	20010821	US 671882	A	20000928
US 6326002	BA	20011204	US 671990	A	20000928
US 6335012	BA	20020101	US 671992	A	20000928
US 6350464	BA	20020226	US 227852	A	19990111
US 6399097	BA	20020604	US 654482	A	20000901
US 6399098	BA	20020604	US 671991	A	20000928
US 6406692	BA	20020618	US 671880	A	20000928
US 6423299	BA	20020723	US 654483	A	20000901
US 6428784	BA	20020806	US 671881	A	20000928
US 6432444	BA	20020813	US 671878	A	20000928
US 6479067	BB	20021112	US 819376	A	20010328
US 6641833	BB	20031104	US 264793	A	20021004
US 6685937	BB	20040203	US 866106	A	20010525
WO 200041678	A1	20000720	WO 99US30814	A	19991223
WO 200050069	A1	20000831	WO 99US4063	A	19990225
WO 200119385	A2	20010322	WO 2000US25093	A	20000914
WO 200151073	A2	20010719	WO 2001US913	A	20010112
WO 200324410	A2	20030327	WO 2002US30099	A	20020923
WO 200400222	A2	20031231	WO 2003US19654	A	20030623
WO 200119385	A3	20011122	WO 2000US25093	A	20000914
WO 200151073	A3	20011220	WO 2001US913	A	20010112
WO 200119385	C2	20020926	WO 2000US25093	A	20000914
WO 200151073	C2	20020808	WO 2001US913	A	20010112
ZA 200106499	A	20021107	ZA 20016499	A	20010807
ZA 200202305	A	20020930	ZA 20022305	A	20020322
CZ 20012416	A3	20011114	CZ 20012416	A	19991223

Priority Data (No,Kind,Date):

WO 99US4063 A 19990225  
 US 257025 A 19990225  
 US 227852 A 19990111  
 WO 99US30814 W 19991223  
 US 395636 A 19990914  
 WO 2000US25093 W 20000914  
 US 482992 A 20000114  
 US 752731 A 20010103  
 WO 2001US913 W 20010112  
 WO 99US4063 W 19990225  
 NZ 514260 A 19990225  
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DIALOG(R)File 357:Derwent Biotech Res.  
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0305070 DBR Accession No.: 2003-06855 PATENT

**Novel genetically labeled bacteriophage for use in prophylactic and  
therapeutic treatment of bacterial infections in plants, livestock,  
birds and humans, and for environmental clean up and sanitation -  
genetically labeled phage production and detection for bacterium  
infection**

AUTHOR: MANDEVILLE R; ALLAIN B; MURTHY K

PATENT ASSIGNEE: BIOPHAGE INC 2002

PATENT NUMBER: WO 200286154 PATENT DATE: 20021031 WPI ACCESSION NO.:  
2003-058729 (200305)

PRIORITY APPLIC. NO.: US 284517 APPLIC. DATE: 20010419

NATIONAL APPLIC. NO.: WO 2002CA569 APPLIC. DATE: 20020419

LANGUAGE: English

**Novel genetically labeled bacteriophage for use in prophylactic and  
therapeutic treatment of bacterial infections in plants, livestock,  
birds and humans, and for environmental clean up...**

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**METHODS FOR GENERATING LIBRARIES OF THERAPEUTIC BACTERIOPHAGES HAVING  
DESIRED SAFETY CHARACTERISTICS AND METHODS FOR LABELING AND MONITORING  
BACTERIOPHAGES**

**PROCEDES PERMETTANT DE PRODUIRE DES BIBLIOTHEQUES DE BACTERIOPHAGES  
THERAPEUTIQUES POSSEDANT DES CARACTERISTIQUES DE SECURITE DESIREES ET  
PROCEDES DE MARQUAGE ET DE SURVEILLANCE DESDITS BACTERIOPHAGES**

PATENT ASSIGNEE:

Biophage, Inc., (3936210), 6100 Royalmount, Montreal, Quebec H4P 2R2,  
(CA), (Applicant designated States: all)

INVENTOR:

MANDEVILLE, Rosemonde, 781 Thibault, Ste-Therese, Quebec J7E 4B9, (CA)

ALLAIN, Beatrice, 8434 St-Hubert, Montreal, Quebec H2P 1Z5, (CA)

MURTHY, Kishore, 24 Linton, Dollard des Ormeaux, Quebec H9B 1P3, (CA)

PATENT (CC, No, Kind, Date):

WO 2002086154 021031

APPLICATION (CC, No, Date): EP 2002764031 020419; WO 2002CA569 020419

PRIORITY (CC, No, Date): US 284517 P 010419

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C12Q-001/68

LANGUAGE (Publication,Procedural,Application): English; English; English

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PROCEDES DE MARQUAGE ET DE SURVEILLANCE DESDITS BACTERIOPHAGES**

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L7: Entry 42 of 63

File: USPT

Nov 18, 1997

DOCUMENT-IDENTIFIER: US 5688501 A

TITLE: Antibacterial therapy with bacteriophage genotypically modified to delay inactivation by the host defense system

Brief Summary Text (26):

Enabling bacteriophages to delay inactivation by those host defense systems-- whichever components of it may or may not be employed in any given case--would be likely to result in an increased in vivo killing of bacterial pathogens that are in the host range for those bacteriophages.

## CLAIMS:

1. A method for treating an infectious disease caused by bacteria in an animal comprising:

administering to an animal in need of such treatment lytic or non-lytic bacteriophages that are specific for said bacteria in a dosage effective to substantially eliminate the bacteria, wherein said bacteriophages are obtained by serial passage through an animal's circulatory system of mutagenized or non-mutagenized bacteriophages and are selected to have at least a 15% longer half-life in the animal's circulatory system than corresponding wild-type bacteriophages, wherein said at-least 15% longer half-life is genetically inheritable and wherein said bacteriophages having at least 15% longer half-life contact said bacteria during the course of the infectious disease.

2. The method according to claim 1, wherein said bacteria are drug resistant bacteria.

3. The method according to claim 1, wherein said animal is not a mammal.

4. The method according to claim 1, wherein said animal is a mammal.

5. The method according to claim 1, wherein the bacteriophages are administered by way of an aerosol to an animal's lungs.

6. The method according to claim 1, wherein the bacteriophages are administered at a dosage of about  $10^{6.6}$  to about  $10^{13}$  pfu/kg/day.

7. The method according to claim 6, wherein the bacteriophages are administered at a dosage of about  $10^{12}$  pfu/kg/day.

8. The method according to claim 1, wherein said infectious disease is systemic.

9. The method according to claim 1, wherein the bacteria belong to a genus selected from the group consisting of Mycobacteria, Staphylococci, Vibrio, Enterobacter, Enterococcus, Escherichia, Haemophilus, Neisseria, Pseudomonas, Shigella, Serratia, Salmonella, Streptococcus, Klebsiella and Yersinia, and wherein the bacteriophages can effectively lyse the bacteria.

10. The method according to claim 9, wherein the bacteria belong to the genus

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**New Bacteria**

- [49467D](#) Acinetobacter sp. genomic DNA from Acinetobacter sp.
- [7965D](#) Aeromonas hydrophila genomic DNA from Aeromonas hydrophila
- [BAA-456](#) Butyrivibrio hungatei JK 615



Mycobacteria and are selected from the group consisting of Mycobacterium tuberculosis, Mycobacterium avium-intracellulare and Mycobacterium bovis.

11. The method according to claim 1, wherein said bacteriophages having at least 15% longer half-life contact said bacteria via the animal's circulatory system.

12. Isolated and purified bacteriophages that have been obtained by serial passage of mutagenized or non-mutagenized bacteriophages through an animal's circulatory system and selected to have at least a 15% longer half-life in said animal's circulatory system than corresponding wild-type bacteriophages, wherein said at-least 15% longer half-life is genetically inheritable.

13. The bacteriophages of claim 12, wherein said bacteriophages are specific for a bacterial genus selected from the group consisting of Mycobacteria, Staphylococci, Vibrio, Enterobacter, Enterococcus, Escherichia, Haemophilus, Neisseria, Pseudomonas, Shigella, Serratia, Salmonella, Streptococcus, Klebsiella and Yersinia.

14. A pharmaceutical composition comprising isolated and purified bacteriophages that have been obtained by serial passage of mutagenized or non-mutagenized bacteriophages through an animal's circulatory system and selected to have at least a 15% longer half-life in said animal's circulatory system than corresponding wild-type bacteriophages, wherein said at-least 15% longer half-life is genetically inheritable, in combination with a pharmaceutically acceptable carrier.

16. The pharmaceutical composition according to claim 14, wherein said bacteriophage is in lyophilized form.